



# FM Global Risk Report

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## Location Findings

### City of Memphis, Tennessee, The County of Shelby, Tennessee, Tennessee Hoops LLP

191 Beale Street  
Memphis, Tennessee 38103  
USA

#### **All in One Interim Risk Evaluation**

Visit by: David Kiser  
Visit date: 16 July 2009  
Conference with: Mr. Bob Tiedemann, Director of Engineering

## Principal Site Activity

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This multipurpose arena is used for sporting events, music concerts, large gatherings, etc. There is an associated Administration Building and parking deck.

## Understanding the Risk at this Facility

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This is a well maintained and engineered arena. Earthquake bracing and gas seismic valves were installed at the time this structure was erected.

Sincere interest in loss prevention is exhibited by management. Proper sprinkler control valve inspections and weekly running of the fire pump are now completed. Also, the other FM Global human element programs, such as utilizing the red tag permit and hot work permit programs, electrical maintenance, visits by the fire department, etc., are now completed.

## Location Overview

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The following display(s) show RiskMark information for this location. Note that the RiskMark scores and displays are different than in the past. RiskMark was recalibrated and enhanced to now include Equipment Hazards and an emphasis on Human Element programs. RiskMark will now provide additional points for risk improvement in these and other areas. Your contacts at FM Global can help you to see the advantages of this more comprehensive benchmarking tool.

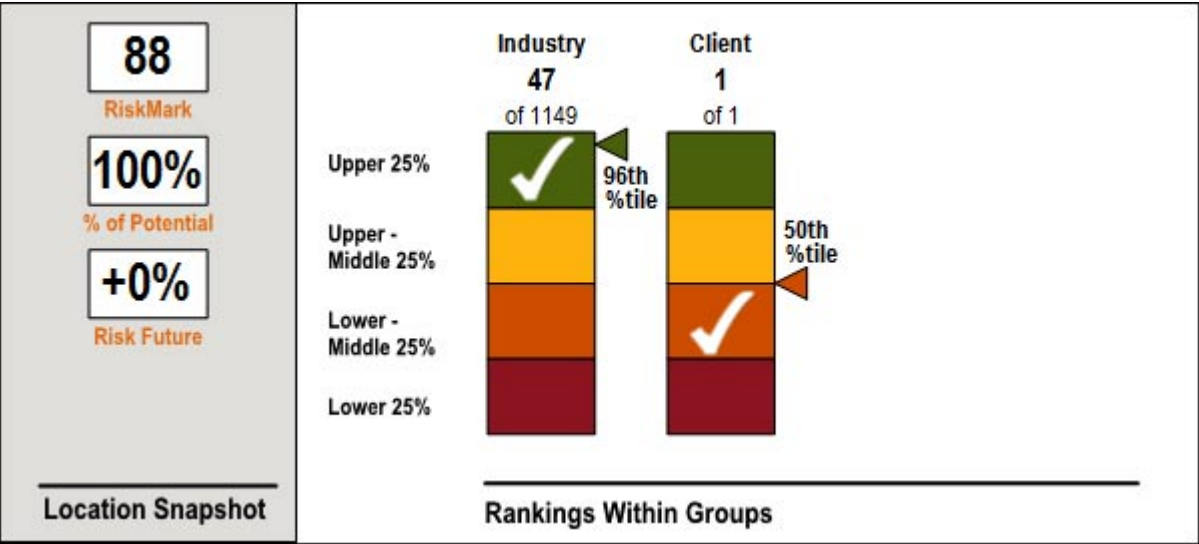
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*Factory Mutual Insurance Company (FM Global) has developed this report for insurance underwriting purposes. The report is provided to you for informational purposes only to reduce the possibility of loss to property by bringing to your attention certain potential hazards or conditions. You must make the decision whether to take any action. FM Global undertakes no duty to any party by providing this report or performing the activities on which it is based. The liability of FM Global is limited to that contained in its insurance policies.*

Location Overview continued

RiskMark Snapshot

This display provides a snapshot of the risk quality of this location, including a summary of the current RiskMark score, the percentage of the potential score, the history of risk improvement, the projected risk improvement in the future, as well as risk quality rankings within various groups of locations.



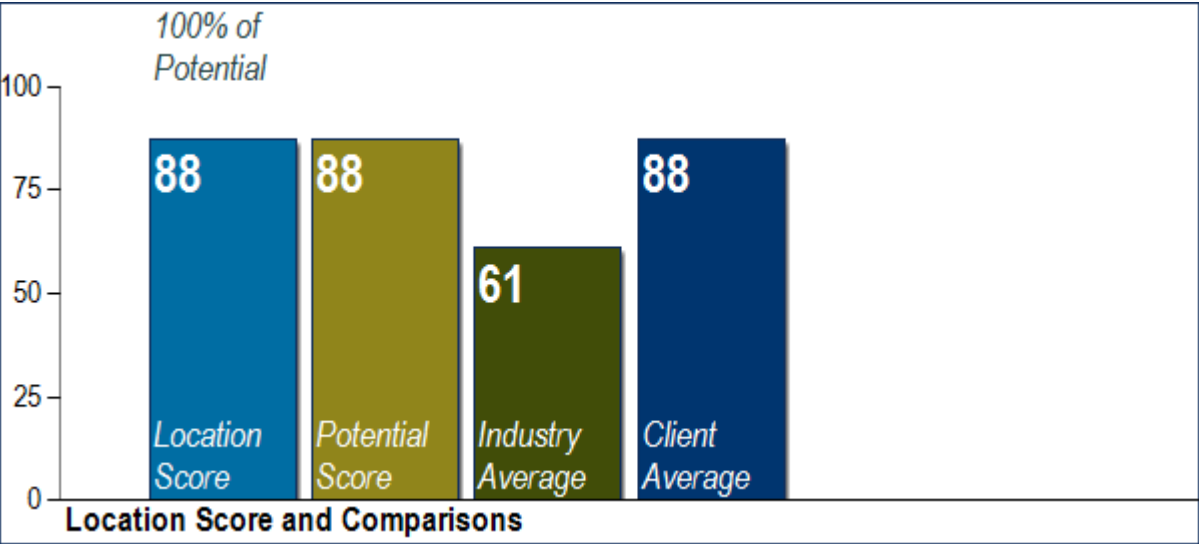
The Industry used in the above chart is Public Assembly.

The Risk Future number is the per year improvement in your percentage of potential score, projected to 01 July 2012.

Location Overview continued

RiskMark Comparisons

This display shows a comparison of your RiskMark to the average scores of other groups as noted in the display. Note that your potential score and percent of potential scores are also included.



The Industry used in the above chart is Public Assembly.

## Risk Reduction

Recommendations that have been completed or otherwise removed are summarized in this section. Risk Reduction involving **Physical Recommendations** is quantified in this report by counting the completed recommendations. **Human Element Recommendations** that have been completed often do not have an associated loss estimate since they usually serve to lower the frequency and/or severity of a loss. For this reason, we quantify them by counting the number of such items that have been completed.

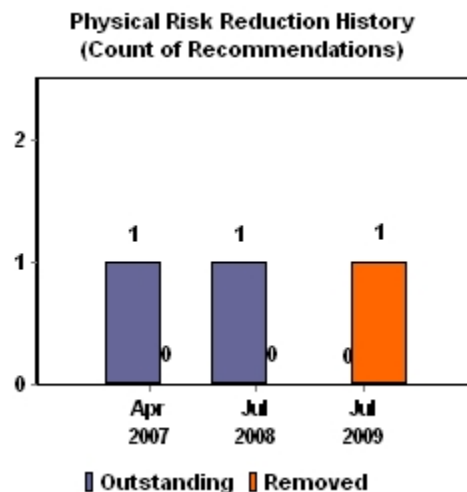
The "Counts" of recommendations referenced in this section include each part of multi-part recommendations except in cases where each part represents options to address a single deficiency. In such cases, the recommendation is only counted once.

*These charts illustrate current risk reduction status since the last inspection visit, and also include an historical account of previous risk reduction activity on a cumulative basis. Focus and special visits are not tracked separately, but the total outstanding recommendation counts reflect the full history since April 2007.*

## Physical Recommendations

The following **Physical** recommendation has been completed or removed as a result of this evaluation:

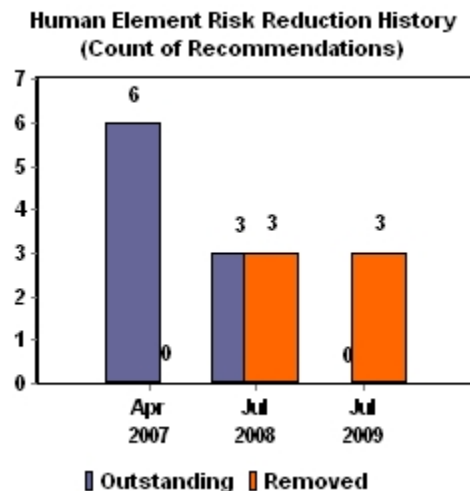
Rec Number	Recommendation Synopsis <i>Reason for Deletion/Completion</i>	Removal Method
06-01-001	Replace painted sprinkler heads inside of the Rock N Soul Museum. <i>The previous painted sprinkler heads were replaced during September 2008.</i>	Completed 16 Jul 09



## Human Element Recommendations

The following **Human Element** recommendations have been completed or removed as a result of this evaluation:

Rec Number	Recommendation Synopsis <i>Reason for Deletion/Completion</i>	Removal Method
04-11-004	Establish a weekly and monthly sprinkler control valve inspection program. <i>Mr. Bob Tiedemann is now making monthly sprinkler valve inspections. He is using the FM Global Fire Prevention Inspection form revised on Sept. 30, 2008.</i>	Completed 16 Jul 09
04-11-005	Use the FM Global Red Tag Permit System to supervise fire protection impairments. <i>Mr. Tiedemann is familiar with the FM Global Red Tag Permit System, and this has been utilized a number of times since the previous visit.</i>	Completed 16 Jul 09
04-11-006	Establish hot work permit system procedures. <i>Mr. Bob Tiedemann is aware of the FM Global Hot Work Permit Program. Any hot work activity would be very unusual.</i>	Completed 16 Jul 09



## Comments

Comments continued



**Exterior View**

Sprinkler Control Valve Inspections and Fire Pump Run Tests

Proper monthly sprinkler valve inspections are now being completed by Mr. Bob Tiedemann, using the fourth revision of the FM Global Fire Prevention Inspection Form. No additional valves were added to the list during this visit. Mr. Tiedemann agreed with the need to provide numbers on the sprinkler valves to correspond to the sprinkler valve form, and the most appropriate method of completing this will be further discussed with other management officials.

Mr. Tiedemann continues to start the fire pump weekly, with records maintained on a separate form. The pump is started upon pressure drop and is now allowed to run for approximately 30 min.; however, it was discussed that this run time can be reduced to 10 min. for this electric pump. The record form indicates that he is checking various items before, during, and after the weekly tests. This fire pump is properly maintained, and the fire pump testing program remains satisfactory.

Contractor Tests

Giles Fire Protection completed their annual inspection of the sprinkler systems during November 2008. This annual inspection included flowing 2 in. sprinkler riser drains, testing sprinkler waterflow alarms, trip testing dry valves and preaction valves, etc.

ESI is now in the process of completing the testing on all of the alarms in the complex.

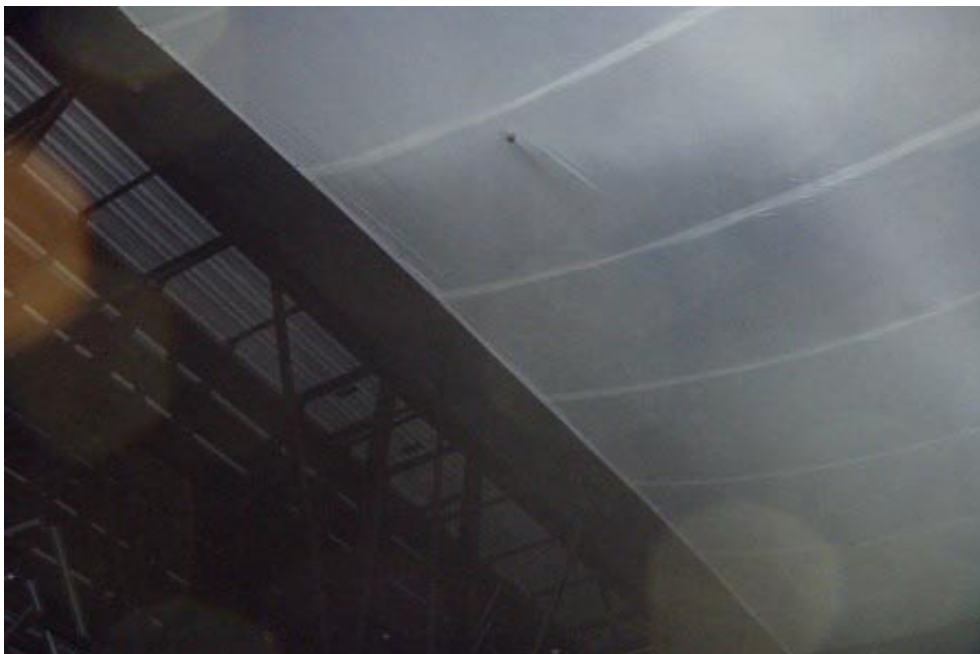
## Comments continued

Moore Pumps and Equipment conducted the annual performance test on the fire pump on February 5, 2009, with satisfactory results.

### Other Human Element Programs

- Mr. Bob Tiedemann stated that any need for hot work operations would be very unusual. He is, however, aware of the procedure for monitoring any needed hot work type operations.
- The FM Global Red Tag Permit System will be utilized for sprinkler, alarm system problems, or fire pump impairments in the future. A number of impairments have been coordinated with FM Global since the previous visit.

A canvas ceiling has been installed in a hallway for better video projection. Sprinklers were installed to penetrate beneath this canvas ceiling in this approximate 30 x 40 ft. area.



**Canvas Ceiling Installed**

The 2009 FM Global Resource Catalogue was provided and discussed with Mr. Tiedemann. Also, the online training available at no charge was reviewed, and he was encouraged to have his employees to utilize this training (especially courses on impairment handling, sprinkler valve inspections, and hot work operations). Access is through <http://training.fmglobal.com> to obtain individual passwords.



## Comments continued

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Copies of the FM Global site plan (changes made to the site drawing during this visit) were requested for Mr. Tiedemann.

## Ongoing Services

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FM Global is available to provide support in all areas of property loss prevention. These services include:

- Development of specifications for projects such as new construction, automatic protection systems, and process safeguards
- Review of related project plans
- Assistance in implementing and managing loss prevention programs
- On site review and acceptance of completed projects
- Assistance in managing impaired protection systems

Depending on your organization's insurance program, you may also have access to the FM Global MyRisk website. If so, you will find additional risk management tools that can help with your risk improvement strategy at:

<https://myrisk.fmglobal.com>

For access to these services, contact one of the following:

**Atlanta Operations:**

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## Reference Information

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### Location Findings

City of Memphis, Tennessee, The County of  
Shelby, Tennessee, Tennessee Hoops LLP  
191 Beale Street  
Memphis, Tennessee 38103  
USA

All in One  
Interim Risk Evaluation

<b>Visit by:</b>	David Kiser
<b>Visit date:</b>	16 July 2009
<b>Site Contact:</b>	Mr. Bob Tiedemann, Director of Engineering at +1 901 2051575, btiedemann@grizzlies.com
<b>Final Conference Attendees:</b>	Mr. Bob Tiedemann, Director of Engineering; Ms. Louise Horton, Department of Finance; Mr. Brian Harder, Accounting Manager
<b>Location Index Number:</b>	000605.52-02
<b>Account Number:</b>	1-39437

**RiskMark Information included in this report is current as of 24 July 2009.**